

Experiment Number: 89029-03
Test Type: 150-DAY
Route: MAGNETIC FIELDS
Species/Strain: Mouse/PIM

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/20/2014

Time Report Requested: 19:45:40

First Dose M/F: NA / NA

Lab: IIT

C Number:	C89029B
Lock Date:	01/05/1995
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	NONE

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PIM Mouse MALE	10 GAUSS	10 GAUSSINTER	2 GAUSS	0.02 GAUSS	SHAM CONTROL	10 GAUSS
Disposition Summary						
Animals Initially In Study	19	19	19	19	19	11
Early Deaths						
Moribund Sacrifice	3	10	3	4	10	3
Natural Death		1	1	2		
Survivors						
Moribund Sacrifice						1
Terminal Sacrifice	16	8	15	13	9	7
Animals Examined Microscopically	19	19	19	19	19	11
ALIMENTARY SYSTEM						
Liver	(19)	(19)	(19)	(19)	(19)	(11)
Congestion		1 (5%)				
Fatty Change						1 (9%)
Inflammation, Chronic	1 (5%)	2 (11%)	5 (26%)	8 (42%)	3 (16%)	2 (18%)
Necrosis				1 (5%)		
CARDIOVASCULAR SYSTEM						
None						
ENDOCRINE SYSTEM						
None						
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
None						
HEMATOPOIETIC SYSTEM						
Lymph Node, Mandibular	(19)	(19)	(19)	(18)	(19)	(11)
Hemorrhage						
Hyperplasia	7 (37%)	3 (16%)	10 (53%)	5 (28%)	3 (16%)	4 (36%)

a - Number of animals examined microscopically at site and number of animals with lesion

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Lab: IIT

PIM Mouse MALE	10 GAUSS	10 GAUSSINTER	2 GAUSS	0.02 GAUSS	SHAM CONTROL	10 GAUSS
Infiltration Cellular, Plasma Cell					1 (5%)	
Lymph Node, Mesenteric	(13)	(16)	(15)	(13)	(18)	(11)
Hemorrhage		1 (6%)				
Hyperplasia	3 (23%)	1 (6%)			1 (6%)	2 (18%)
Spleen	(19)	(19)	(19)	(19)	(19)	(11)
Hematopoietic Cell Proliferation					2 (11%)	1 (9%)
Lymph Follic, Hyperplasia	1 (5%)		1 (5%)	1 (5%)	2 (11%)	
Thymus	(19)	(19)	(18)	(18)	(19)	(11)
Atrophy	1 (5%)					
Hyperplasia	2 (11%)		2 (11%)		1 (5%)	
INTEGUMENTARY SYSTEM						
None						
MUSCULOSKELETAL SYSTEM						
None						
NERVOUS SYSTEM						
None						
RESPIRATORY SYSTEM						
Lung	(19)	(19)	(19)	(19)	(19)	(11)
Alveolar Epith, Hyperplasia	1 (5%)				1 (5%)	1 (9%)
Congestion						
Hemorrhage	2 (11%)	2 (11%)	2 (11%)	1 (5%)	5 (26%)	2 (18%)
Interstitial, Inflammation, Chronic	1 (5%)			1 (5%)	1 (5%)	
Perivascular, Inflammation, Chronic	5 (26%)		5 (26%)	2 (11%)	1 (5%)	1 (9%)
Serosa, Inflammation, Chronic	1 (5%)			1 (5%)		
SPECIAL SENSES SYSTEM						
None						
URINARY SYSTEM						

a - Number of animals examined microscopically at site and number of animals with lesion

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First Dose M/F: NA / NA

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PIM Mouse MALE	10 GAUSS	10 GAUSSINTER	2 GAUSS	0.02 GAUSS	SHAM CONTROL	10 GAUSS
Kidney	(19)	(19)	(19)	(19)	(19)	(11)
Hydronephrosis	1 (5%)	2 (11%)	1 (5%)	1 (5%)	1 (5%)	
Infarct						1 (9%)
Inflammation					1 (5%)	
Inflammation, Chronic	7 (37%)	6 (32%)	8 (42%)	8 (42%)	4 (21%)	4 (36%)

a - Number of animals examined microscopically at site and number of animals with lesion

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PIM Mouse MALE	10 GAUSS	2 GAUSS	0.02 GAUSS	SHAM	CONTROL
Disposition Summary					
Animals Initially In Study	11	11	11		11
Early Deaths					
Moribund Sacrifice	4	6	5		1
Natural Death			1		1
Survivors					
Moribund Sacrifice	1				
Terminal Sacrifice	6	5	5		9
Animals Examined Microscopically	11	11	11		10
ALIMENTARY SYSTEM					
Liver	(11)	(11)	(11)		(10)
Congestion					
Fatty Change					
Inflammation, Chronic	1 (9%)		1 (9%)		3 (30%)
Necrosis					
CARDIOVASCULAR SYSTEM					
None					
ENDOCRINE SYSTEM					
None					
GENERAL BODY SYSTEM					
None					
GENITAL SYSTEM					
None					
HEMATOPOIETIC SYSTEM					
Lymph Node, Mandibular	(10)	(11)	(11)		(10)
Hemorrhage		1 (9%)			
Hyperplasia	3 (30%)	2 (18%)			2 (20%)

a - Number of animals examined microscopically at site and number of animals with lesion

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First Dose M/F: NA / NA

Lab: IIT

PIM Mouse MALE	10 GAUSS	2 GAUSS	0.02 GAUSS	SHAM	CONTROL
Infiltration Cellular, Plasma Cell					
Lymph Node, Mesenteric	(10)	(10)	(9)		(9)
Hemorrhage					
Hyperplasia	2 (20%)				1 (11%)
Spleen	(11)	(11)	(11)		(10)
Hematopoietic Cell Proliferation	1 (9%)				
Lymph Follic, Hyperplasia					1 (10%)
Thymus	(11)	(11)	(11)		(10)
Atrophy					
Hyperplasia					
INTEGUMENTARY SYSTEM					
None					
MUSCULOSKELETAL SYSTEM					
None					
NERVOUS SYSTEM					
None					
RESPIRATORY SYSTEM					
Lung	(11)	(11)	(11)		(10)
Alveolar Epith, Hyperplasia					
Congestion					1 (10%)
Hemorrhage	4 (36%)	4 (36%)	3 (27%)		2 (20%)
Interstitial, Inflammation, Chronic					1 (10%)
Perivascular, Inflammation, Chronic	2 (18%)		2 (18%)		4 (40%)
Serosa, Inflammation, Chronic					
SPECIAL SENSES SYSTEM					
None					
URINARY SYSTEM					

a - Number of animals examined microscopically at site and number of animals with lesion

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First Dose M/F: NA / NA

Lab: IIT

PIM Mouse MALE	10 GAUSS	2 GAUSS	0.02 GAUSS	SHAM	CONTROL
Kidney	(11)	(11)	(11)		(10)
Hydronephrosis	2 (18%)		2 (18%)		
Infarct					
Inflammation					
Inflammation, Chronic	2 (18%)	3 (27%)	2 (18%)		5 (50%)

END OF MALE DATA

a - Number of animals examined microscopically at site and number of animals with lesion

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 First Dose M/F: NA / NA
 Lab: IIT

PIM Mouse FEMALE	10 GAUSS	10 GAUSSINTER	2 GAUSS	0.02 GAUSS	SHAM CONTROL	10 GAUSS
Disposition Summary						
Animals Initially In Study	19	19	19	19	19	11
Early Deaths						
Moribund Sacrifice	6	5	4	6	2	1
Natural Death	4	3	2	2	5	2
Survivors						
Terminal Sacrifice	9	11	13	11	12	8
Other						
Animals Examined Microscopically	19	19	19	19	19	11
ALIMENTARY SYSTEM						
Liver	(19)	(19)	(19)	(19)	(19)	(11)
Fatty Change						
Hematopoietic Cell Proliferation				1 (5%)		
Inflammation, Chronic	6 (32%)	6 (32%)	6 (32%)	8 (42%)	4 (21%)	
Necrosis			1 (5%)	1 (5%)	1 (5%)	
CARDIOVASCULAR SYSTEM						
None						
ENDOCRINE SYSTEM						
Thyroid Gland	(0)	(0)	(0)	(1)	(0)	(0)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
None						
HEMATOPOIETIC SYSTEM						
Lymph Node, Mandibular	(19)	(19)	(19)	(18)	(19)	(10)
Hyperplasia	7 (37%)	7 (37%)	8 (42%)	6 (33%)	7 (37%)	5 (50%)
Lymph Node, Mesenteric	(19)	(18)	(17)	(17)	(17)	(9)

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First Dose M/F: NA / NA
Lab: IIT

PIM Mouse FEMALE	10 GAUSS	10 GAUSSINTER	2 GAUSS	0.02 GAUSS	SHAM CONTROL	10 GAUSS
Hyperplasia	3 (16%)	3 (17%)	2 (12%)	4 (24%)	4 (24%)	1 (11%)
Spleen	(19)	(19)	(19)	(19)	(18)	(11)
Atrophy				1 (5%)		
Hematopoietic Cell Proliferation	1 (5%)	1 (5%)		3 (16%)	3 (17%)	
Infiltration Cellular, Mast Cell					1 (6%)	
Lymph Follic, Hyperplasia	1 (5%)			3 (16%)	1 (6%)	1 (9%)
Thymus	(18)	(19)	(19)	(17)	(18)	(11)
Atrophy			1 (5%)			
Hyperplasia	1 (6%)		1 (5%)		2 (11%)	1 (9%)
INTEGUMENTARY SYSTEM						
None						
MUSCULOSKELETAL SYSTEM						
None						
NERVOUS SYSTEM						
None						
RESPIRATORY SYSTEM						
Lung	(19)	(19)	(19)	(19)	(18)	(10)
Hemorrhage	6 (32%)	1 (5%)	2 (11%)	2 (11%)	3 (17%)	2 (20%)
Interstitial, Inflammation, Chronic					2 (11%)	
Perivascular, Inflammation, Chronic	7 (37%)	10 (53%)	9 (47%)	9 (47%)	8 (44%)	5 (50%)
Serosa, Inflammation, Chronic				1 (5%)		
Thrombosis						
SPECIAL SENSES SYSTEM						
None						
URINARY SYSTEM						
Kidney	(19)	(19)	(19)	(19)	(19)	(10)
Amyloid Deposition						

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PIM Mouse FEMALE	10 GAUSS	10 GAUSSINTER	2 GAUSS	0.02 GAUSS	SHAM CONTROL	10 GAUSS
Hydronephrosis				1 (5%)	1 (5%)	
Infarct					1 (5%)	
Inflammation, Chronic	6 (32%)	7 (37%)	9 (47%)	8 (42%)	10 (53%)	3 (30%)

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PIM Mouse FEMALE	10 GAUSS	2 GAUSS	0.02 GAUSS	SHAM	CONTROL
Disposition Summary					
Animals Initially In Study	11	11	11		11
Early Deaths					
Moribund Sacrifice	4		3		1
Natural Death		2	1		2
Survivors					
Terminal Sacrifice	7	8	7		8
Other		1			
Animals Examined Microscopically	11	10	11		11
ALIMENTARY SYSTEM					
Liver	(11)	(10)	(11)		(11)
Fatty Change	1 (9%)				
Hematopoietic Cell Proliferation					
Inflammation, Chronic	2 (18%)	1 (10%)	2 (18%)		2 (18%)
Necrosis	1 (9%)				
CARDIOVASCULAR SYSTEM					
None					
ENDOCRINE SYSTEM					
Thyroid Gland	(0)	(0)	(0)		(0)
GENERAL BODY SYSTEM					
None					
GENITAL SYSTEM					
None					
HEMATOPOIETIC SYSTEM					
Lymph Node, Mandibular	(11)	(10)	(11)		(11)
Hyperplasia	3 (27%)	2 (20%)	6 (55%)		5 (45%)
Lymph Node, Mesenteric	(10)	(9)	(9)		(9)

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PIM Mouse FEMALE	10 GAUSS	2 GAUSS	0.02 GAUSS	SHAM	CONTROL
Hyperplasia	2 (20%)	3 (33%)			3 (33%)
Spleen	(11)	(10)	(11)		(11)
Atrophy					1 (9%)
Hematopoietic Cell Proliferation		1 (10%)	2 (18%)		1 (9%)
Infiltration Cellular, Mast Cell					
Lymph Follic, Hyperplasia			1 (9%)		3 (27%)
Thymus	(11)	(10)	(11)		(11)
Atrophy					
Hyperplasia					
INTEGUMENTARY SYSTEM					
None					
MUSCULOSKELETAL SYSTEM					
None					
NERVOUS SYSTEM					
None					
RESPIRATORY SYSTEM					
Lung	(11)	(10)	(11)		(11)
Hemorrhage	2 (18%)	2 (20%)	4 (36%)		2 (18%)
Interstitial, Inflammation, Chronic					
Perivascular, Inflammation, Chronic	6 (55%)	6 (60%)	5 (45%)		5 (45%)
Serosa, Inflammation, Chronic					
Thrombosis			1 (9%)		
SPECIAL SENSES SYSTEM					
None					
URINARY SYSTEM					
Kidney	(11)	(10)	(11)		(11)
Amyloid Deposition	1 (9%)				

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PIM Mouse FEMALE	10 GAUSS	2 GAUSS	0.02 GAUSS	SHAM	CONTROL
Hydronephrosis			1 (9%)		
Infarct					
Inflammation, Chronic	3 (27%)	4 (40%)	6 (55%)		5 (45%)

**** END OF REPORT ****

a - Number of animals examined microscopically at site and number of animals with lesion